

time $\xrightarrow{P}$ phasor

Instantaneous Power $p(t)$

$$R \rightarrow R$$

$$L \rightarrow j\omega L$$

$$C \rightarrow -j \frac{1}{\omega C} \quad |V|$$

$$v(t) \rightarrow \bar{V} = \frac{V_m}{\sqrt{2}} \angle \theta_v$$

$$i(t) \rightarrow \bar{I} = \frac{I_m}{\sqrt{2}} \angle \theta_i$$

$$p(t) \rightarrow ? \quad |I|$$
$$= v(t)i(t)$$